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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Parkin et al.

Confirmation No.: 7661

Application No.: 09/766,344

Group Art Unit: 1648

Filed: January 19, 2001

Examiner: S. Foley

For: MEANS AND METHODS FOR

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Attorney Docket No.: 11068-033-999

MONITORING PROTEASE INHIBITOR ANTIRETROVIRAL THERAPY AND GUIDING

THERAPEUTIC DECISIONS IN THE

TREATMENT OF HIV/AIDS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

1.	Enclos	ures accompanying this Information Disclosure Statement are:
	1a.	A list of all patents, publications, applications, or other information submitted for consideration by the office.
	1b.	A legible copy of:
		⊠ Each U.S. patent application publication and U.S. and foreign patent;
		Each publication or that portion which caused it to be listed on the PTO-1449;
		For each cited pending U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion;
		all other information or portion which caused it to be listed on the PTO-1449.
	1c.	An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report.
	1d.	Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications.
2.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b): Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d):

		Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
		☐ Before the mailing of the first Office action on the merits;
		Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
3.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.
		(Check either Item 3a or 3b)
	3a.	☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
	3b.	The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is: enclosed
		to be charged to Jones Day Deposit Account No.,50-3013.
		(Item 3b to be checked if any reference known for more than 3 months)
4.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.
		The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: — enclosed. — to be charged to Jones Day Deposit Account No. 50-3013.
	The Ce	ertification Statement in Item 5 below is applicable.
5.		Certification Statement (applicable if Item 3a or Item 4 is checked)
	_	(Check either Item 5a or 5b)
	5a.	In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
	5b.	Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
	5c.	Pursuant to 37 C.F.R. §1.704(d), each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
6.		This application is a continuation application under 37 C.F.R. §1.60 or §1.53(b) or (d).

(Check appropriate Items 6a, 6b and/or 6c)

	6a.	A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.
	6b.	Copies of publications listed on Form PTO-1449 from prior application Serial No., filed on , of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).
	6c.	Copies of the publications listed on Form PTO-1449 were not previously cited in prior application Serial No. , filed on , and are provided herewith.
7.		This is a Supplemental Information Disclosure Statement. (Check Item 7a)
	7a.	This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(f) supplements the Information Disclosure Statement filed on . A bona fide attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on .
8.		In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:
		(Check Item 8a, 8b, or 8c)
	8a.	satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.
	8b.	set forth in the application.
	8c.	enclosed as an attachment hereto.
9.	\boxtimes	The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Jones Day Deposit Account No. 50-3013.
10.		No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).
Date:	July 1	Respectfully submitted, David Pauling For: Nikolaos C. George (Reg. No. 39,201) JONES DAY 222 East 41 st Street New York, New York 10017-6702 (212) 326-3939

JUL 13 2004 PLIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)

ATTY DOCKET NO. 11068-033-999	APPLICATION NO 09/766,344
APPLICANT Parkin et al.	
FILING DATE January 19, 2001	GROUP 1648

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	B01	5,436,131	7/95	Condra et al.			
	B02	5,766,842	6/98	Melnick et al.			
	B03	6,033,902	3/00	Haseltine et al.			
	B04	6,103,462	8/00	Paulous et al.			
	B05	6,242,187	6/01	Capon et al.			
	B06	20030108857	6/03	Parkin et al.			
•	B07	20040106106	6/04	Parkin et al.			

	FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION
							YES	NO
	B08	WO99/67427	6/99	PCT				
	B09	WO00/78996	12/00	PCT				
	B10	WO02/22076	3/02	PCT				
	Bil	WO02/068618	9/02	PCT				
	B12	WO02/099387	12/02	PCT				
	B13	WO03/070700	8/03	PCT				
	B14	WO04/003512	1/04	PCT				
	B15	WO04/003514	1/04	PCT				<u> </u>
,	B16	Int'l Search Report for PCT/US02/18684	1/03	PCT				
•	B17	Int'l Search Report for PCT/US03/04362	12/04	PCT				
	B18	Int'l Search Report for PCT/US03/21335	5/04	PCT				
	B19	Int'l Search Report for PCT/US03/21023	7/04	PCT				

	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)
B20	Carrillo et al., (1998), "In Vitro Selection and Characterization of Human Immunodefciency Virus Type 1 Variants With Increased Resistance to ABT-378, a Novel Protease Inhibitor," Journal of Virology, 72(9): 7532-41.
B21	Condra et al., (1996), "Genetic Correlates of In Vivo Resistance to Indinavir, a Human Immunodeficiency Virus Type 1 Protease Inhibitor," Journal of Virology, 70(12): 8270-76
B22	Genbank Accession Number P12497 POL Polyprotein (2004)
B23	Genbank Accession Number AF324493 HIV-1 vector pNL4[gi:12831134] (2001).
B24	Gervaix, et al., (1997), "A New Reporter Cell Line to Monitor HIV Infection and Drug Susceptibility in Vitro," Proc. Natl. Acad. Sci. USA, 94: 4653-4658.
B25	Gong et al., (2000), "In Vitro Resistance Profile of the Human Immunodeficiency Virus Type 1 Protease Inhibitor BMS-232632," Antimicrobial Agents and Chemotherapy, 44(9): 2319-26.
B26	Gunthard, et al., (1998), "Comparative Performance of High-Density Oligonucleotide Sequencing and Dideoxynucleotide Sequencing of HIV Type 1 pol From Clinical Samples," Aids Research and Human Retroviruses.

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7 13	2	14(10): 869-876.
		Haubrich et al., (2001), "CCTG 575: A Randomized. Prospective Study of Phenotype Testing Versus Standard of Card For Patients Failing Antiretroviral Therapy," Antiviral Therapy, 6(Supplement 1): 63.
& TRANS	B28	Herrmann, et al., (1997), "A Working Hypotheses-Virus Resistance Development As An Indicator of Specific Antiviral Activity," Ann. NY Acad Sciences, 284: 632-637.
	B29	Hirsch, et al., (2000), "Antiretroviral Drug Resistance Testing in Adult HIV-1 Infection" JAMA, 283(18): 2417-26.
	B30	Katzenstein et al., (2002), "Baseline Phenotypic Susceptibility and Virologic failure over 144 weeks Among Nucleoside RT Inhibitor Experienced Subjects in ACTG 364," Antiretroviral Drug Resistance Testing in Adult HIV-1 Infection," 2002 9th Conference on Retroviruses and Opportunistic Infections, Session 77 Poster Session 591-T.
	B31	Katzenstein et al., (2002), "The Inhibitory Quotient (IQ) for Saquinavir (SQV) Predicts Virologic Response to Salvage Therapy," 2002 9th Conference on Retroviruses and Opportunistic Infections, Session 28 Poster Session 129.
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	B33	Maguire et al., (2002), "Emergence of Resistance to Protease Inhibitor Amprenavir in Human Immunodeficiency Virus Type 1-Infected Patients: Selection of Four Alternative Viral Protease Genotypes and Influence of Viral Susceptibility to Coadministered Reverse Transcriptase Nucleoside Inhibitors," Antimicrobial Agents and Chemotherapy, 46(3): 731-738.
	B34	Petropoulos, et al., (2000), "A Novel Phenotypic Drug Susceptibility Assay For Human Immunodeficiency Virus Type 1," Antimicrobial Agents and Chemotherapy, 44(4): 920-928.
	B35	Race, et al., (1999), "Analysis of HIV Cross-Resistance to Protease Inhibitors Using A Rapid Single-Cycle Recombinant Virus Assay For Patients Failing On Combination Therapies," AIDS, 13(15): 2061-2068.
•	B36	Rusconi, Stefano. et al. (2000): "Susceptibility to PNU-140690 (Tipranavir) of Human Immunodeficiency Virus Type 1 Isolates Derived From Patients with Multidrug Resistance to Other Protease Inhibitors," Antimicrobial Agents and Chemotherapy, 44(5): 1328-32.
	B37	Schuurman, et al., (1999), "Worldwide Evaluation of DNA Sequencing Approaches for Identification of Drug Resistance Mutations in the Human Immunodeficiency Virus Type 1 Reverse Transcriptase," Journal of Clinical Microbiology, 37(7): 2291-2296.
	B38	Shi, et al., (1997), "A Recombinant Retroviral System for Rapid In Vivo Analysis of Human Immunodeficiency Virus Type 1 Susceptibility to reverse Transcriptase Inhibitors," Antimicrobial Agents and Chemotherapy, 41(12): 2781-85.
	B39	Tisdale, M. et al. (1995): "Cross-Resistance Analysis of Human Immunodeficiency Virus Type 1 Variants Individually Selected for Resistance to Five Different Protease Inhibitors," Antimicrobial Agents and Chemotherapy 39(8):1704-10.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER

DATE CONSIDERED